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Unlikely Collaborators, Uncharted Waters: Toward an AI-Grounded Pedagogy for Information Literacy and the ACRL Framework

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Abstract

Librarians are positioned to lead in teaching how to use AI. We show examples of exercises which teach how to use AI as part of the research process, with a focus on classroom exercises compatible with library instruction sessions, and we are organizing our classroom exercises around the ACRL Framework.

Introducing the ACRL Framework for Information Literacy in Higher Education

- Predecessor: Information Literacy Competency Standards for Higher Education (2000)
- Adopted in 2016
- Set up dispositions for students: information literacy as a process



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Misinformation, content farms, and artificial intelligence

The ACRL Framework was designed to address voluminous information and misinformation: “[T]he rapidly changing higher education environment, along with the dynamic and often uncertain information ecosystem in which all of us work and live, require new attention to be focused on foundational ideas about that ecosystem.” (ACRL, 2016, 7).



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Strategies for teaching artificial intelligence in the classroom

1. Acceptance: AI is here to stay
2. Identify why and how students are likely to use AI in your classroom
3. Deploy active learning activities to encourage the ethical use of AI
4. Use HuggingChat: Does not require login




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Hugging Chat

 **HuggingChat** v0.7.0

Making the community's best AI chat models available to everyone.

Current Model

 **mistralai/Mixtral-8x7B-Instruct-v0.1**



[↗ Model page](#)

[🌐 Website](#)

Examples

Write an email from bullet list

Code a snake game

Assist in a task

Search web 

Ask anything 

Model: mistralai/Mixtral-8x7B-Instruct-v0.1 · Generated content may be inaccurate or false.

Authority is Constructed & Contextual & Information Creation as a Process

- ROBOT Test: Reliability, objectivity, bias, ownership, & type (Wheatley & Hervieux, 2023).
- Hidden Layer: Intellectual Privacy and Generative AI (Hartman-Caverly, 2023).
- Card games to teach how machine learning algorithms work (Bell & Talboom, 2023)



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Searching as Strategic Exploration & Research as Inquiry

- Search tools comparison (Fitzgibbons, 2023).
- Teaching prompt engineering with an analogy to shooting pool (Nesbitt & Stilwell, 2023).
- The Case of the Unsolved Hallucination (Reagan, 2024a).



Artificial intelligence generated images of hands made by Dall-E 2 and featuring hallucinated extra fingers.

Scholarship as Conversation & Information Has Value

- AI Prompt Engineering (Reagan, 2024d)
- Building Confidence in using AI to Generate Citations (Reagan, 2024b)
- AI & Personal Information: An Investigation(Reagan, 2024c)



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Continuing the Conversation

We are interested in collecting more lesson plans using the ACRL Framework, which are easily adaptable to teaching artificial intelligence. If you have any to share, feel free to email us at kreagan@georgiasouthern.edu or wrandtke@georgiasouthern.edu to share.



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